PACENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

YUE, Henry et al

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year)
06 June 2001 (06.06.01)

International application No.
PCT/US00/07817

International filing date (day/month/year)
22 March 2000 (22.03.00)

ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

Applicant's or agent's file reference
PF-0681 PCT

Priority date (day/month/year)
22 March 1999 (22.03.99)

1	The designated Office is hereby notified of its election made:
1.	X in the demand filed with the International Preliminary Examining Authority on:
	11 October 2000 (11.10.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Charlotte ENGER

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

PA 'NT COOPERATION TREAT'

	From the	e INTERNATIONAL BU	JREAU
PCT	То:	,	
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 11 June 2001 (11.06.01)	Incyte 3160 I Palo A	ET-COX, Diana Pharmaceuticals, Inc Porter Drive Alto, CA 94304 S-UNIS D'AMERIQUE	
Applicant's or agent's file reference PF-0681 PCT		IMPORTANT NOTI	FICATION
International application No. PCT/US00/07817	l	al filing date (day/month/yearch 2000 (22.03.00)	ear)
The following indications appeared on record concerning: X the applicant X the inventor	the agent	the commo	on representative
Name and Address AZIMZAI, Yalda 2045 Rock Springs Drive Hayward, CA 94545 United States of America		State of Nationality US Telephone No.	State of Residence US
· · · · · · · · · · · · · · · · · · ·		Facsimile No. Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the the person the name X the add	_	the nationality	the residence
Name and Address AZIMZAI, Yalda	-	State of Nationality US	State of Residence US
5518 Boulder Canyon Drive Castro Valley, CA 94552 United States of America		Telephone No.	
		Facsimile No.	
		Teleprinter No.	
3. Further observations, if necessary:			
4. A copy of this notification has been sent to:			
X the receiving Office	اِ	the designated Offices	concerned
the International Searching Authority X the International Preliminary Examining Authority	l [the elected Offices cor other:	ncerned
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized	officer A. Karkachi	

Telephone No.: (41-22) 338.83.38

TENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	f Transmittal of International Search Report
PF-0681 PCT	ACTION (Form PCT/ISA/2:	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/07817	22/03/2000	22/03/1999
Applicant		
INCYTE PHARMACEUTICALS, IN	ıc	
INCITE FIARMACEUTICAES, IN		
This International Search Report has been	prepared by this International Searching Author	Ority and is transmitted to the applicant
according to Article 18. A copy is being tra	nsmitted to the International Bureau.	only and is transmitted to the applicant
This International Search Report consists	of a total of6 sheets.	
	a copy of each prior art document cited in this r	eport.
Basis of the report		
a. With regard to the language, the in	nternational search was carried out on the basi ess otherwise indicated under this item.	s of the international application in the
Authority (Hule 23.1(b)).	as carried out on the basis of a translation of the	
was carried out on the basis of the		ernational application, the international search
	nal application in written form.	
	national application in computer readable form. this Authority in written form.	•
	this Authority in computer readble form.	
X the statement that the subs	sequently furnished written sequence listing do filed has been furnished,	es not go beyond the disclosure in the
		identical to the written sequence listing has been
2. X Certain claims were foun	d unsearchable (See Box I).	
3. Unity of invention is lack	ing (see Box II).	
4. With regard to the title ,		
TX the text is approved as sub	mitted by the applicant.	
the text has been establish	ed by this Authority to read as follows:	
5. With regard to the abstract,		•
the text is approved as sub	mitted by the applicant. ed, according to Rule 38.2(b), by this Authority	on it common in Day III. The continue
within one month from the c	date of mailing of this international search repo	rt, submit comments to this Authority.
6. The figure of the drawings to be publis	•	
as suggested by the application as suggested by the applicant failed		None of the figures.
because this figure better c	•	

ional Application No

PC1/US 00/07817 a. classification of subject matter IPC 7 C12N15/12 C07K14/47 C12P21/00 C12N5/10 C07K16/18 A61K38/17 C12Q1/68 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C07K C12P C12N A61K C12Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α EP 0 834 563 A (SMITHKLINE BEECHAM CORP) 1-17,20, 8 April 1998 (1998-04-08) the whole document P,X HAMMOND H.A. ET AL.: "Homo sapiens 1-5,10,chromosome 11 clone pac255-m-19 map 11q13, *** sequencing in progress ***, 7 ordered pieces" EMBL DATABASE SEQUENCE AC024127; ACCESSION NO. AC024127. 24 February 2000 (2000-02-24), XP002148958 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 7 O. 1. 01 9 October 2000 Name and mailing address of the ISA

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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Schönwasser, D



ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		nelevant to claim ino.
	NCI-CGAP: "National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index http://www.ncbi.nlm.nih.gov/ncicgap; ot03c01.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:16\overline{13760}\overline{3}', mRNA sequence" EMBL DATABASE ENTRY AI000010; ACCESSION NO. AI000010,5 June 1998 (1998-06-05), XP002148959	1-5,10,
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on on patent family members

In Jonal Application No PC1/US 00/07817

							00/07817
Patent cited in s	document search report		Publication date	P	atent family member(s)		Publication date
EP 08	34563	Α	08-04-1998	JP US	101791 58245	178 A 504 A	07-07-1998 20-10-1998
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x I Observations where certain claims w r f und unsearchable (C ntinuation of item 1 of first sheet)
his International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 16 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: 18,19,21,22 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
ox II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
nis International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-23 ( ALL PARTIALLY)
The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

Claims: 1-23 (all partially)

Invention No.: 1

An isolated polypeptide comprising the amino acid sequence of SEQ ID NO:1 or homologues or fragments thereof; an isolated polynucleotide encoding said polypeptide; a recombinant polynucleotide comprising a promoter sequence operably linked to said polynucleotide; a cell transformed with said recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; a method for producing said polypeptide; an isolated antibody which specifically binds to said polypeptide; an isolated polynucleotide comprising the polynucleotide sequence of SEO ID NO:30 or homologues or complements thereof; a method for detecting a target polynucleotide in a sample, wherein said target polynucleotide has a sequence of above polynucleotide; a pharmaceutical composition comprising an effective amount of above polypeptide; a method for treating a disease or condition comprising administering said pharmaceutical composition; a method for screening a compound for effectiveness as an agonist or antagonist of above polypeptide; a method for screening a compound for effectiveness in altering expression of a target polynucleotide, wherein the target polynucleotide comprises above isolated polynucleotide.

2. Claims: 1-23 (all partially)

Inventions Nos.: 2-28

Inventions no. 2-28 relate to subject-matter as defined above for "invention 1", with the exception, that inventions no. 2-28 refer to one of the polypeptide sequences SEQ ID NO:2 to SEQ ID NO:23 and SEQ ID NO:25 to SEQ ID NO:29 (and the respective polynucleotide sequences SEQ ID NO:31 to SEQ ID NO:52 and SEQ ID NO:54 to SEO ID NO:58).

Continuation of Box I.2

Claims Nos.: 18,19,21,22

Claims 18 and 19 refer to an agonist compound and its use, wherein said agonist is identified by a method according to claim 17, without giving a true technical characterization of said agonist compound. Moreover, no such compounds are defined in the application. In consequence, the scope of said claims is ambiguous and vague and their subject-matter is not sufficiently disclosed and supported. The above comment also applies to claims 21 and 22, which refer to an antagonist compound and its use.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

nal Application No PCT/US 00/07817

A CLASSIFICATION OF SUBJECT MATTER 1PC 7 C12N15/12 C07K14/47 A61K38/17 C12Q1/68

C12N5/10

C12P21/00

C07K16/18

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K C12P A61K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

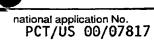
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α .	EP 0 834 563 A (SMITHKLINE BEECHAM CORP) 8 April 1998 (1998-04-08) the whole document	1-17,20, 23
P,X	HAMMOND H.A. ET AL.: "Homo sapiens chromosome 11 clone pac255-m-19 map 11q13,***sequencing in progress***, 7 ordered pieces" EMBL DATABASE SEQUENCE AC024127;ACCESSION NO. AC024127, 24 February 2000 (2000-02-24), XP002148958	1-5,10,
		·

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      A" document defining the general state of the art which is not considered to be of particular relevance      E" earlier document but published on or after the international filing date      U" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O" document referring to an oral disclosure, use, exhibition or other means      P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "8" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
9 October 2000	1 0. 1. 01
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Schönwasser, D

Int Inal Application No
PCT/US 00/07817

		PC1/05 00/0/81/			
C.(Continu	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
x	NCI-CGAP: "National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index http://www.ncbi.nlm.nih.gov/ncicgap; ot03c01.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613760_3', mRNA sequence" EMBL DATABASE ENTRY AI000010; ACCESSION NO. AI000010,5 June 1998 (1998-06-05), XP002148959	1-5,10, 11			
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Box I Ob	servations where certain claims w re found uns archable (Continuation of item 1 of first she t)
This Internal	tional Search Report has not been stablished in respect of certain claims under Article 17(2)(a) for the following reasons:
	ims Nos.: cause they relate to subject matter not required to be searched by this Authority, namely:
bo	though claim 16 is directed to a method of treatment of the human/animal ody, the search has been carried out and based on the alleged effects of the empound/composition.
bed bed	ims Nos.: 18,19,21,22 cause they relate to parts of the International Application that do not comply with the prescribed requirements to such extent that no meaningful International Search can be carried out, specifically:
se	ee FURTHER INFORMATION sheet PCT/ISA/210
	ims Nos.: ause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
	3
Box II Ob	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This Internat	ional Searching Authority found multiple inventions in this international application, as follows:
	all required additional search fees were timely paid by the applicant, this International Search Report covers all urchable claims.
	all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
	only some of the required additional search fees were timely paid by the applicant, this International Search Report ers only those claims for which fees were paid, specifically claims Nos.:
res	required additional search fees were timely paid by the applicant. Consequently, this International Search Report is tricted to the invention first mentioned in the claims; it is covered by claims Nos.:  -23 ( ALL PARTIALLY)
Remark on	Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

1. Claims: 1-23 (all partially)

Invention No.: 1

An isolated polypeptide comprising the amino acid sequence of SEO ID NO:1 or homologues or fragments thereof; an isolated polynucleotide encoding said polypeptide; a recombinant polynucleotide comprising a promoter sequence operably linked to said polynucleotide; a cell transformed with said recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; a method for producing said polypeptide; an isolated antibody which specifically binds to said polypeptide; an isolated polynucleotide comprising the polynucleotide sequence of SEQ ID NO:30 or homologues or complements thereof; a method for detecting a target polynucleotide in a sample, wherein said target polynucleotide has a sequence of above polynucleotide; a pharmaceutical composition comprising an effective amount of above polypeptide; a method for treating a disease or condition comprising administering said pharmaceutical composition; a method for screening a compound for effectiveness as an agonist or antagonist of above polypeptide; a method for screening a compound for effectiveness in altering expression of a target polynucleotide, wherein the target polynucleotide comprises above isolated polynucleotide.

2. Claims: 1-23 (all partially)

Inventions Nos.: 2-28

Inventions no. 2-28 relate to subject-matter as defined above for "invention 1", with the exception, that inventions no. 2-28 refer to one of the polypeptide sequences SEQ ID NO:2 to SEQ ID NO:23 and SEQ ID NO:25 to SEQ ID NO:29 (and the respective polynucleotide sequences SEQ ID NO:31 to SEQ ID NO:52 and SEQ ID NO:54 to SEQ ID NO:58).

Continuation of Box I.2

Claims Nos.: 18,19,21,22

Claims 18 and 19 refer to an agonist compound and its use, wherein said agonist is identified by a method according to claim 17, without giving a true technical characterization of said agonist compound. Moreover, no such compounds are defined in the application. In consequence, the scope of said claims is ambiguous and vague and their subject-matter is not sufficiently disclosed and supported. The above comment also applies to claims 21 and 22, which refer to an antagonist compound and its use.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

Information on patent family members

In nat Application No
PCT/US 00/07817

Patent document Publication cited in search report date	Patent family member(s)	Publication date	
EP 0834563 A 08-04-1998	JP 10179178 A US 5824504 A	07-07-1998 20-10-1998	